Molecule Membrane Biology

Volume 15 Number 1 January–March 1998

Contents

Review

Cationic lipids, phosphatidylethanolamine and the intracellular delivery of polymeric, nucleic acid-based drugs (Review)
M. J. Hope, B. Mui, S. Ansell and Q. F. Ankhong 1

Papers

In vitro folding of a membrane protein: effect of denaturation and renaturation on substrate binding by the lactose permease of *Escherichia coli*
Molly M. He and H. Ronald Kaback 15

Cell surface localization of the 78 kD glucose-regulated protein (GRP 78) induced by thapsigargin
Andrea Delpino, Pierluca Piselli, Daniela Vismara, Silvia Vendetti and Vittorio Colizzi 21

Phosphoinositide metabolism and shape control in sheep red blood cells
Lars Backman, Johanna Björk Jonasson and Per Hörstedt 27

Estimation of structural similarity of membrane proteins by hydropathy profile alignment
Juke S. Lolkema and Dirk-Jan Slotboom 33

Book reviews

Protein NMR Techniques. Edited by David G. Reid (Anthony Watts) 43

Oxford Dictionary of Biochemistry and Molecular Biology. Edited by A. D. Smith, S.P. Datta, G. Howard Smith, P. N. Campbell, R. Bentley and H. A. McKenzie (Jack A. Lucy) 43

Cell Biology: Essential Techniques. Edited by D. Rickwood and J. R. Harris (W. Howard Evans) 44

Calender of events 47

Volume 15 Number 2 April–June 1998

Reviews

The intracellular potassium and chloride channels: properties, pharmacology and function (Review)
Adam Szewczyk 49

The modulation of membrane structure and stability by dimethyl sulphoxide (Review)
Zhi-Wu Yu and Peter J. Quinn 59

Papers

Microcalorimetric study on the phase behaviour of S-layer coated liposomes
Seta Küpcü, Karl Lohner, Christoph Mader and Uwe B. Sleytr 69

Assignment of the human serotonin 4 receptor gene (HTR4) to the long arm of chromosome 5 (5q31-q33)
Sven Cichon, Kristina Kesper, Peter Propping and Markus M. Nöthen 75

Expression of the mammalian renal peptide transporter PEPT2 in the yeast *Pichia pastoris* and applications of the yeast system for functional analysis
Frank Döring, Tiana Michel, Annette Rösel, Monika Nickolaus and Hannelore Daniel 79

Amphiphile-induced phosphatidylserine exposure in human erythrocytes
Henry Hägerstrand, Tim H. Holmström, Malgorzata Bobrowska-Hägerstrand, John Eriksson and Boris Isomaa 89

Book reviews

Signalling by Inositides: A Practical Approach. Edited by Stephen Shears (Shamshad Cockcroft) 97

Facilitative Glucose Transporters. Edited by Gwyn G. Gould (Soraya P. Shirazi-Beechey) 97

The Golgi Apparatus. Edited by E. G. Berger and J. Roth (Robert C. Piper) 98

Calendar of events 101

Volume 15 Number 3 July–September 1998

Review

Reprogramming the phagocytic pathway — intracellular pathogens and their vacuoles (Review)
Albert Haas 103

Papers

Phosphatidylinositol 4-kinase of *Torpedo californica* electrocytes: physico-chemical characterization and regulation by calcium and vicinal molecules of phosphatidylinositol
Bettina Katterle, Petra Westerteicher and Eberhard Neumann 123

TGN38 cycles *via* the basolateral membrane of polarized Caco-2 cells
Barbara J. Reaves, Elizabeth P. Roquemore, J. Paul Luzio and George Banting 133

Oligomerization of the cytotoxin α-sarcin associated with phospholipid membranes
Mercedes Oñaderra, José M. Mancheño, Javier Lacadena, Vivian de los Rios, Alvaro Martínez del Pozo and José G. Gavilanes 141

Effect of procaine on membrane potential and intracellular pH in *Xenopus laevis* oocytes
Jean-Luc Rodeau, Stéphane Flament, Edith Browaeys, Jean-Pierre Vilain 145

Two glycoprotein populations of band 3 dimers are present in human erythrocytes
Carolina Landolt-Marticorena, Jeffrey H. M. Charuk and Reinhart A. F. Reithmeier 153

Book reviews

The missing link by James W. Putney Jr (Michael J. Berridge) 159

Protein targeting and intracellular signalling edited by Roger A. Clegg (Gunnar von Heijne) 160

Signalling and membrane transport Edited by K. W. A. Wirtz (A. Asano) 160

Structure and function of lipids Edited by Richard W. Gross (M. I. Gurr) 161

Graduate students' handbook by R. M. Twyman (Richard A Sturm) 162

Volume 15 Number 4 October – December 1998

Review

Cell adhesion: more than just glue (Review)
Christopher D. Buckley, G. Ed Rainger, Paul F. Bradfield, Gerard B. Nash and David L. Simmons 167

Papers

Preliminary characterization of the protein encoded by human Testis-Enhanced Gene Transcript (TEGT)
R. T. Cowling and H. C. Birnboim 177

Short term regulation of endothelial Na^+-K^+-pump activity by cGMP: a ^{133}Cs magnetic resonance study
Marco L. H. Gruwel and John P. Williams 189

Characteristics of the osmotically induced membrane rupture
M. Baumann and R. Grebe 193

Molecular cloning, functional expression and chromosomal localization of a cDNA encoding a human Na^+/nucleoside cotransporter (hCNT2) selective for purine nucleosides and uridine
Mabel W. L. Ritzel, Sylvia Y. M. Yao, Amy M. L. Ng, John R. Mackey, Carol E. Cass and James D. Young 203

Compensating lipid fluxes generated by the aminophospholipid translocase
Stephan Frickenhaus, Andreas Herrmann and Reinhart Heinrich 213

Amino acid sequences which promote and prevent the binding and membrane insertion of surface-active peptides: comparison of melittin and promelittin
Caroline Wolfe, Josep Cladera and Paul O'Shea 221

Repair of BHK cell surface ganglioside GM3 after its degradation by extracellular sialidase
Daniel J. Sillence and David Allan 229

The L-glutamate transporters GLAST (EAAT1) and GLT-1 (EAAT2): expression and regulation in rat lactating mammary gland
Itziar Martínez-López, Concha García, Teresa Barber, Juan R. Viña and Vicente J. Miralles 237

Book reviews

Cytoskeletal–Membrane Interactions and Signal Transduction. Edited by Pamela Cowin and Michael W. Klymkowsky
(Kenneth M. Yamada) 243

Lipid and Protein Traffic: Pathways and Molecular Mechanisms. Edited by J. A. F. Op den Kamp
(Stephen High) 244

The Physiology of Excitable Cells (4th Edition) By David J. Aidley
(James Halliwell) 245

Calendar of events 247

Author index 249

Keyword index 250